Panasonic

Closed Circuit Video Equipment

NETWORK CAMERA

## Network Colour Dome Cameras

# WV-NS320 Series

## OUR NEW BROADBAND CAPABLE AND SURVEILLANCE FEATURE-PACKED COLOUR DOME CAMERAS

The new Panasonic WV-NS320 Series can be connected to both analogue and digital networks. Colour camera, zoom lens, pan and tilt mechanisms are all combined in a single compact unit. When this camera is connected to an Ethernet network, you can operate it and monitor its images from a personal computer. Or, you can use it with an analogue colour composite signal as part of your existing surveillance systems using coaxial cable. With input from a motion detector or external sensor, it can automatically store images and attach them to e-mail or control external devices to turn on lights or start surveillance recording. Combining a 10x zoom lens with 5x digital zoom, it can zoom in for up to 50x close-ups. It operates in lighting as low as 1.0 lx and can pan a full 360˚. The Flip-A-Chip feature makes it easy to capture subjects passing directly below the camera, the image-hold feature prevents blurring when the camera moves, and pre-set positions simplify operation.

Superb specifications and a host of convenience features make the WV-NS320 Series ideal for bank branch, franchise outlet or other network surveillance applications.

**OPTIONAL ACCESSORIES**

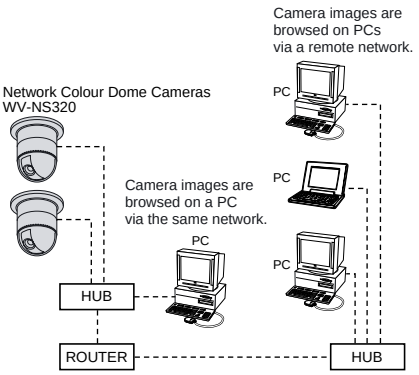
Smoke Covers
**WV-CS2S**
**WV-CS2SH**
Mirror Cover
**WV-CS2M**

### KEY FEATURES

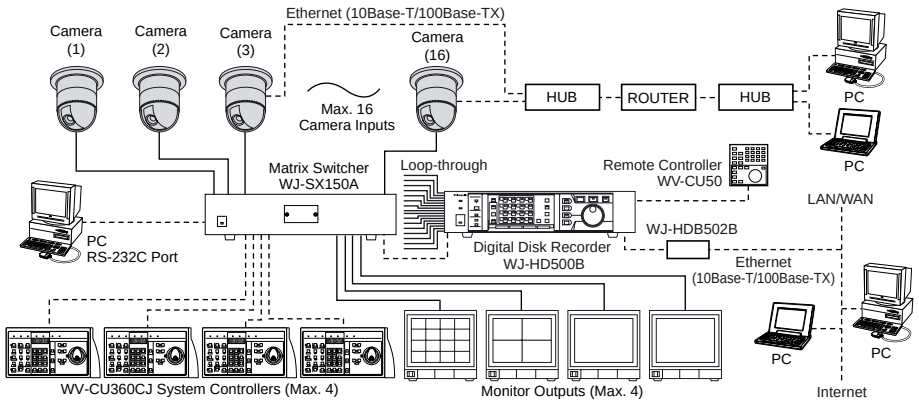
- Compact dome designed all-in-one unit colour surveillance camera.
- Both analogue video output and digital Ethernet port are available.
- Built-in network interface (10Base-T/100Base-TX) for remote monitoring by PC simply. (Internet interface protocol; TCP/IP, UDP/IP, HTTP, FTP, SMTP, DNS, DDNS, DHCP, NTP and BOOTP)
- Built-in Alarm function for external security devices, and FTP alarm activation.
- JPEG image size : 752 x 568, 752 x 280, 368 x 280 and 176 x 136
- 1/4-type CCD colour image sensor with 752H x 582V pixels.
- 480-line of horizontal resolution.
- Min. illumination of 1.0 lx (at AGC High).
- Built-in Flip-A-Chip function.
- Image hold function during panning.
- 360˚ endless panning range.
- Auto panning with rotation speed of 100˚/s.
- 10x optical zoom (4.2 - 42mm at F1.4) plus 5x electronic digital zoom lens provided (total zoom capacity of 50x).
- Auto focus lens mechanism.
- Alarm input/output terminal connectors
- Built-in digital motion detector.
- Built-in alphanumeric character display.
- Electronic sensitivity enhancement (Auto; up to 10x, Manual; up to 32x, and Off)
- Digital signal processing LSI's for high quality pictures : 2H vertical enhancement, Chroma gain, Pedestal, Hue and Noise reduction circuit.
- Multiplexed Vertical Drive (VD2) sync capability with Panasonic system products.

## SYSTEM EXAMPLE

### 1 Monitoring System utilizing an Intranet



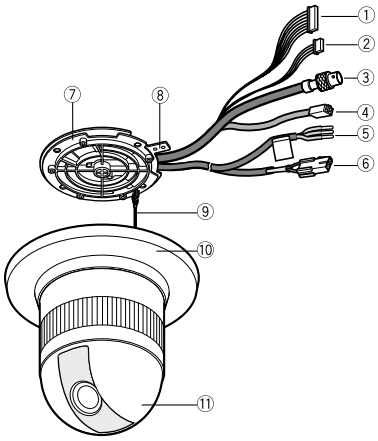

### 2 Monitoring with Panasonic System Products




## SPECIFICATIONS PAL

| | | | |
|---|---|---|---|
| **Model No.** | | WV-NS320 | WV-NS324 |
| **Pick-up Device** | | 752 (H) x 582 (V) | |
| **Scanning Area** | | 3.57mm (H) x 2.67mm (V), 1/4-type CCD image sensor | |
| **Synchronization** | | Internal/Line-Lock/Multiplexed Vertical Drive (VD2) | |
| **Scanning** | | 625 lines/50 fields/25 frames | |
| **Scanning System** | | 2 : 1 interlace | |
| **Video Output** | | VBS1.0V[p-p]/75Ω, composite signal | |
| **Resolution** | H | more than 480 lines (at centre) | |
| | V | more than 400 lines (at centre) | |
| **Minimum Illumination** | | 1.0 lx at F1.4 (at AGC High) | |
| **Signal to Noise Ratio** | | 50dB (AGC OFF, Weight On) | |
| **AGC** | | On (Low, Mid, High)/Off | |
| **Title Display** | | On/Off | |
| **Motion Detector** | | On/Off | |
| **Flip-A-Chip Function** | | On/Off | |
| **BLC** | | Selectable On/Off | |
| **Set Up** | | Max. 4 times, Auto/Fix | |
| **Alarm Input** | | 2 Inputs (Alarm In 1-2) | |
| **Alarm Output** | | 2 Outputs (Alarm/Aux) | |
| **Electronic Shutter** | | Off (1/50), 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000 s | |
| **Network Section** | | | |
| | Image Resolution | 752 x 568, 752 x 280, 368 x 280, and 176 x 136 | |
| | Image Process | JPEG (Super Fine/Fine/Normal/Rough selectable) | |
| | Image Refresh Rate | Fast/Middle/Slow/Very Slow | |
| | Traffic Control | 32/64/128/256/512/1,024 kbps and unlimited | |
| | Internet Protocol | TCP/IP, UDP/IP, HTTP, FTP, SMTP, DNS, DDNS, DHCP, NTP and BOOTP | |
| **Zoom Ratio** | | 10x Optical plus 5x digital zoom (50x total) | |
| **Max. Aperture Ratio** | | 1 : 1.4 (Wide) ~ 2.0 (Tele) | |
| **Focal Length** | | 4.2 ~ 42mm | |
| **Angular Field of View** | H | 4.9˚ ~ 47˚ | |
| | V | 3.7˚ ~ 36˚ | |
| **Zoom Speed** | | approx. 3.9s (Tele/Wide) in manual mode | |
| **Focus Speed** | | approx. 3.0s (Far / Near) in manual mode | |
| **Iris** | | Automatic (open/close)/manual | |
| **Panning Range** | | 360˚ endless | |
| **Panning Angle Setting** | | Possible (in auto-pan mode) | |
| **Panning Mode** | | Manual/auto pan | |
| **Panning Speed** | | Manual: approx. 1.0˚/s ~ 100˚/s<br>Preset position: max. 100˚/s | |
| **Tilting Range** | | 0˚ ~ 92˚ | |
| **Tilting Mode** | | Manual | |
| **Tilting Speed** | | Manual: approx. 1.0˚/s ~ 100˚/s<br>Preset position: max. 100˚/s | |
| **Controls** | | Pan/tilt, lens, preset position, home position | |
| **Controller I/F** | | Multiplex-Coaxial | |
| **Power Supply** | | 220V - 240V AC, 50Hz | 24V AC, 50Hz |
| **Power Consumption** | | 16W | 15W |
| **Ambient Operating Temperature** | | –10˚C ~ +50˚C | |
| **Ambient Operating Humidity** | | Less than 90% | |
| **Dimensions** | | ø120 (D) x 196 (H) mm (ø110mm diameter dome size) | |
| **Weight** | | Approx. 2kg | |

## MAJOR OPERATING CONTROLS




① Alarm Input Connector

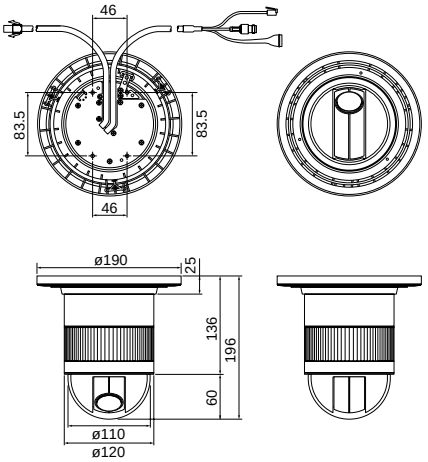
| Wire Colour | Function |
|---|---|
| Black | IN 1 |
| Brown | GND |
| Red | IN 2 |
| Orange | GND |
| Yellow | GND |
| Sky Blue | GND |
| Blue | GND |
| Purple | GND |

② Alarm Output Connector

| Wire Colour | Function |
|---|---|
| Gray | OUT 1 |
| White | GND |
| Pink | OUT 2 |
| Green | GND |

③ Video Output Connector
④ Network Ethernet Port
⑤ Power Cable Connector (WV-NS320)
⑥ Power Cable Connector (WV-NS324)
⑦ Camera Mounting Base
⑧ Camera Lock Plate
⑨ Fall Prevention Wire
⑩ Decoration Cover
⑪ Dome Cover

## APPEARANCE




Unit : mm

• Weights and dimensions are approximate. • Specifications are subject to change without notice. • These products may be subject to export control regulations.

DISTRIBUTED BY:

Panasonic

Panasonic is the brandname of Matsushita Electric.

Printed in Japan
(2N-709)